

# Ohio EPA - Daily Discharge Monitoring Report - Form 4500

**SUBMISSION ID:** 1124627  
**FACILITY:** Emerald BioEnergy  
**LOCATION:** 2881 Co Rd 156  
 Cardington, OH 43315  
**COUNTY:** Morrow  
**DISTRICT:** CDO

**STATUS:**  
**PERMIT NUMBER:** 4IN00204\*BD  
**STATION CODE:** 581  
**MONITORING PERIOD :** 2021-12-01 To: 2021-12-31  
**REPORTING LAB:**  
**ANALYST:**  
**NO DISCHARGE INDICATOR:** AL

PARAMETER	pH	Ammonia (NH3) In Sludge	Nitrogen Kjeldahl, Total In Sludge	Phosphorus, Total In Sludge	Potassium In Sludge	Arsenic, Total In Sludge	Cadmium, Total In Sludge
PARAMETER CODE	00400	00611	00627	00668	00938	01003	01028
UNITS	S.U.	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
FREQUENCY	1/Month	1/Month	1/Month	1/Month	1/Month	1/Month	1/Month
SAMPLING TYPE	Composite	Composite	Composite	Composite	Composite	Composite	Composite
2021-12-01							
2021-12-02							
2021-12-03							
2021-12-04							
2021-12-05							
2021-12-06							
2021-12-07							
2021-12-08							
2021-12-09							
2021-12-10							
2021-12-11							
2021-12-12							
2021-12-13							
2021-12-14							
2021-12-15							
2021-12-16							
2021-12-17							
2021-12-18							
2021-12-19							
2021-12-20							
2021-12-21							
2021-12-22							
2021-12-23							
2021-12-24							
2021-12-25							
2021-12-26							
2021-12-27							
2021-12-28							
2021-12-29							
2021-12-30							
2021-12-31							
Minimum							
Maximum							
Average							
Count							
<b>Name of Responsible Official or Authorized Representative</b>  <div style="text-align: center; font-size: 1.2em;">Jeffrey Williamson</div>		I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.		<b>Signature of Responsible Official or Authorized Representative</b>  <div style="height: 80px;"></div>		<b>Submission Date/Time</b>  <div style="text-align: center;"> <b>Certification Version Date</b>            2022-02-27 09:02         </div>	

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**STATION CODE:** 4IN00204\*BD  
**MONITORING PERIOD :** 581  
 2021-12-01 To: 2021-12-31  
**REPORTING LAB:**  
**ANALYST:**  
**NO DISCHARGE INDICATOR:** AL

PARAMETER	Copper, Total In Sludge	Lead, Total In Sludge	Nickel, Total In Sludge	Zinc, Total In Sludge	Selenium, Total In Sludge	Sludge Fee Weight	Sludge Weight
PARAMETER CODE	01043	01052	01068	01093	01148	51129	70316
UNITS	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	dry tons	Dry Tons
FREQUENCY	1/Month	1/Month	1/Month	1/Month	1/Month	1/Month	1/Month
SAMPLING TYPE	Composite	Composite	Composite	Composite	Composite	Total	Total
2021-12-01							
2021-12-02							
2021-12-03							
2021-12-04							
2021-12-05							
2021-12-06							
2021-12-07							
2021-12-08							
2021-12-09							
2021-12-10							
2021-12-11							
2021-12-12							
2021-12-13							
2021-12-14							
2021-12-15							
2021-12-16							
2021-12-17							
2021-12-18							
2021-12-19							
2021-12-20							
2021-12-21							
2021-12-22							
2021-12-23							
2021-12-24							
2021-12-25							
2021-12-26							
2021-12-27							
2021-12-28							
2021-12-29							
2021-12-30							
2021-12-31							
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Average							
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Jeffrey Williamson						<b>Certification Version Date</b> 2022-02-27 09:02	

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**STATUS:**  
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**STATION CODE:** 4IN00204\*BD  
**MONITORING PERIOD :** 581  
 2021-12-01 To: 2021-12-31  
**REPORTING LAB:**  
**ANALYST:**  
**NO DISCHARGE INDICATOR:** AL

PARAMETER	Mercury, Total In Sludge	Molybdenum In Sludge					
PARAMETER CODE	71921	78465					
UNITS	mg/kg	mg/kg					
FREQUENCY	1/Month	1/Month					
SAMPLING TYPE	Composite	Composite					
2021-12-01							
2021-12-02							
2021-12-03							
2021-12-04							
2021-12-05							
2021-12-06							
2021-12-07							
2021-12-08							
2021-12-09							
2021-12-10							
2021-12-11							
2021-12-12							
2021-12-13							
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2021-12-15							
2021-12-16							
2021-12-17							
2021-12-18							
2021-12-19							
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2021-12-21							
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2021-12-25							
2021-12-26							
2021-12-27							
2021-12-28							
2021-12-29							
2021-12-30							
2021-12-31							
Minimum							
Maximum							
Average							
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Jeffrey Williamson						<b>Certification Version Date</b>  2022-02- 27 09:02	

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<b>SUBMISSION ID:</b> <b>FACILITY:</b> <b>LOCATION:</b>  <b>COUNTY:</b> <b>DISTRICT:</b>	1124627 Emerald BioEnergy 2881 Co Rd 156 Cardington, OH 43315 Morrow CDO	<b>STATUS:</b> <b>PERMIT NUMBER:</b> <b>STATION CODE:</b> <b>MONITORING PERIOD :</b>  <b>REPORTING LAB:</b> <b>ANALYST:</b> <b>NO DISCHARGE INDICATOR:</b>	Revision <b>4IN00204*BD</b> 582 <b>2021-12-01 To: 2021-12-31</b>  <b>AL</b>
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PARAMETER	pH	Ammonia (NH3) In Sludge	Nitrogen Kjeldahl, Total In Sludge	Phosphorus, Total In Sludge	Potassium In Sludge	Arsenic, Total In Sludge	Cadmium, Total In Sludge
PARAMETER CODE	00400	00611	00627	00668	00938	01003	01028
UNITS	S.U.	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
FREQUENCY	1/Month	1/Month	1/Month	1/Month	1/Month	1/Month	1/Month
SAMPLING TYPE	Composite	Composite	Composite	Composite	Composite	Composite	Composite
2021-12-01							
2021-12-02							
2021-12-03							
2021-12-04							
2021-12-05							
2021-12-06							
2021-12-07							
2021-12-08							
2021-12-09							
2021-12-10							
2021-12-11							
2021-12-12							
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2021-12-15							
2021-12-16							
2021-12-17							
2021-12-18							
2021-12-19							
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2021-12-23							
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2021-12-25							
2021-12-26							
2021-12-27							
2021-12-28							
2021-12-29							
2021-12-30							
2021-12-31							
Minimum							
Maximum							
Average							
Count							
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**COUNTY:** Morrow  
**DISTRICT:** CDO

**STATUS:**  
**PERMIT NUMBER:** Revision  
**STATION CODE:** 4IN00204\*BD  
**MONITORING PERIOD :** 582  
 2021-12-01 To: 2021-12-31  
**REPORTING LAB:**  
**ANALYST:**  
**NO DISCHARGE INDICATOR:** AL

PARAMETER	Copper, Total In Sludge	Lead, Total In Sludge	Nickel, Total In Sludge	Zinc, Total In Sludge	Selenium, Total In Sludge	Sludge Fee Weight	Sludge Weight
PARAMETER CODE	01043	01052	01068	01093	01148	51129	70316
UNITS	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	dry tons	Dry Tons
FREQUENCY	1/Month	1/Month	1/Month	1/Month	1/Month	1/Month	1/Month
SAMPLING TYPE	Composite	Composite	Composite	Composite	Composite	Total	Total
2021-12-01							
2021-12-02							
2021-12-03							
2021-12-04							
2021-12-05							
2021-12-06							
2021-12-07							
2021-12-08							
2021-12-09							
2021-12-10							
2021-12-11							
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2021-12-17							
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2021-12-26							
2021-12-27							
2021-12-28							
2021-12-29							
2021-12-30							
2021-12-31							
Minimum							
Maximum							
Average							
Count							
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**STATUS:**  
**PERMIT NUMBER:** Revision  
**STATION CODE:** 4IN00204\*BD  
**MONITORING PERIOD :** 582  
 2021-12-01 To: 2021-12-31  
**REPORTING LAB:**  
**ANALYST:**  
**NO DISCHARGE INDICATOR:** AL

PARAMETER	Mercury, Total In Sludge	Molybdenum In Sludge					
PARAMETER CODE	71921	78465					
UNITS	mg/kg	mg/kg					
FREQUENCY	1/Month	1/Month					
SAMPLING TYPE	Composite	Composite					
2021-12-01							
2021-12-02							
2021-12-03							
2021-12-04							
2021-12-05							
2021-12-06							
2021-12-07							
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2021-12-09							
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2021-12-26							
2021-12-27							
2021-12-28							
2021-12-29							
2021-12-30							
2021-12-31							
Minimum							
Maximum							
Average							
Count							
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Jeffrey Williamson							

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 Cardington, OH 43315  
**COUNTY:** Morrow  
**DISTRICT:** CDO

**STATUS:**  
**PERMIT NUMBER:** Revision  
**STATION CODE:** 4IN00204\*BD  
**MONITORING PERIOD :** 586  
 2021-12-01 To: 2021-12-31  
**REPORTING LAB:** Renergy  
**ANALYST:** Jeff Williamson  
**NO DISCHARGE INDICATOR:**

PARAMETER	Sludge Fee Weight					
PARAMETER CODE	51129					
UNITS	dry tons					
FREQUENCY	1/Year					
SAMPLING TYPE	Total					
2021-12-01	526.39					
2021-12-02						
2021-12-03						
2021-12-04						
2021-12-05						
2021-12-06						
2021-12-07						
2021-12-08						
2021-12-09						
2021-12-10						
2021-12-11						
2021-12-12						
2021-12-13						
2021-12-14						
2021-12-15						
2021-12-16						
2021-12-17						
2021-12-18						
2021-12-19						
2021-12-20						
2021-12-21						
2021-12-22						
2021-12-23						
2021-12-24						
2021-12-25						
2021-12-26						
2021-12-27						
2021-12-28						
2021-12-29						
2021-12-30						
2021-12-31						
Minimum	526.39					
Maximum	526.39					
Average	526.39					
Count	1					
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Jeffrey Williamson						Certification Version Date 2022-02-27 09:02

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 Cardington, OH 43315  
**COUNTY:** Morrow  
**DISTRICT:** CDO

**STATUS:**  
**PERMIT NUMBER:** Revision  
**STATION CODE:** 4IN00204\*BD  
**MONITORING PERIOD :** 588  
 2021-12-01 To: 2021-12-31  
**REPORTING LAB:** Renergy  
**ANALYST:** Jeff Williamson  
**NO DISCHARGE INDICATOR:**

PARAMETER	Sludge Weight					
PARAMETER CODE	70316					
UNITS	Dry Tons					
FREQUENCY	1/Year					
SAMPLING TYPE	Total					
2021-12-01	526.39					
2021-12-02						
2021-12-03						
2021-12-04						
2021-12-05						
2021-12-06						
2021-12-07						
2021-12-08						
2021-12-09						
2021-12-10						
2021-12-11						
2021-12-12						
2021-12-13						
2021-12-14						
2021-12-15						
2021-12-16						
2021-12-17						
2021-12-18						
2021-12-19						
2021-12-20						
2021-12-21						
2021-12-22						
2021-12-23						
2021-12-24						
2021-12-25						
2021-12-26						
2021-12-27						
2021-12-28						
2021-12-29						
2021-12-30						
2021-12-31						
Minimum	526.39					
Maximum	526.39					
Average	526.39					
Count	1					
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PARAMETER	pH	Ammonia (NH3) In Sludge	Nitrogen Kjeldahl, Total In Sludge	Phosphorus, Total In Sludge	Potassium In Sludge	Arsenic, Total In Sludge	Cadmium, Total In Sludge
PARAMETER CODE	00400	00611	00627	00668	00938	01003	01028
UNITS	S.U.	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Composite	Composite	Composite	Composite	Composite	Composite	Composite
2021-12-01							
2021-12-02							
2021-12-03							
2021-12-04							
2021-12-05							
2021-12-06							
2021-12-07							
2021-12-08							
2021-12-09							
2021-12-10							
2021-12-11							
2021-12-12							
2021-12-13							
2021-12-14							
2021-12-15							
2021-12-16							
2021-12-17							
2021-12-18							
2021-12-19							
2021-12-20							
2021-12-21							
2021-12-22							
2021-12-23							
2021-12-24							
2021-12-25							
2021-12-26							
2021-12-27							
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**STATION CODE:** 589  
**MONITORING PERIOD :** 2021-12-01 To: 2021-12-31  
**REPORTING LAB:**  
**ANALYST:**  
**NO DISCHARGE INDICATOR:** AL

PARAMETER	Copper, Total In Sludge	Lead, Total In Sludge	Nickel, Total In Sludge	Zinc, Total In Sludge	Selenium, Total In Sludge	Free Liquids, In Sludge	Fecal Coliform in Sludge
PARAMETER CODE	01043	01052	01068	01093	01148	04174	31641
UNITS	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	Pass = 0 Fail = 1	MPN/G
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Composite	Composite	Composite	Composite	Composite	Composite	Multiple Grab
2021-12-01							
2021-12-02							
2021-12-03							
2021-12-04							
2021-12-05							
2021-12-06							
2021-12-07							
2021-12-08							
2021-12-09							
2021-12-10							
2021-12-11							
2021-12-12							
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2021-12-16							
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2021-12-18							
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2021-12-26							
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2021-12-28							
2021-12-29							
2021-12-30							
2021-12-31							
Minimum							
Maximum							
Average							
Count							

<b>Name of Responsible Official or Authorized Representative</b>  <div style="text-align: center; font-size: 1.2em;">Jeffrey Williamson</div>	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.	<b>Signature of Responsible Official or Authorized Representative</b>  <div style="border: 1px solid black; height: 40px; width: 100%;"></div>		<b>Submission Date/Time</b>  <div style="text-align: center;"> <b>Certification Version Date</b>            2022-02-27 09:02         </div>
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PARAMETER	Sludge Fee Weight	Sludge Weight	Sludge Solids, Percent Total	Mercury, Total In Sludge	Molybdenum In Sludge	Sludge Volume, to regional storage facility	Sludge Weight, to regional storage facility
PARAMETER CODE	51129	70316	70318	71921	78465	99973	99974
UNITS	dry tons	Dry Tons	%	mg/kg	mg/kg	gals	dry tons
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Total	Total	Composite	Composite	Composite	Total	Total
2021-12-01							
2021-12-02							
2021-12-03							
2021-12-04							
2021-12-05							
2021-12-06							
2021-12-07							
2021-12-08							
2021-12-09							
2021-12-10							
2021-12-11							
2021-12-12							
2021-12-13							
2021-12-14							
2021-12-15							
2021-12-16							
2021-12-17							
2021-12-18							
2021-12-19							
2021-12-20							
2021-12-21							
2021-12-22							
2021-12-23							
2021-12-24							
2021-12-25							
2021-12-26							
2021-12-27							
2021-12-28							
2021-12-29							
2021-12-30							
2021-12-31							
Minimum							
Maximum							
Average							
Count							
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time	
Jeffrey Williamson						Certification Version Date 2022-02-27 09:02	

# Ohio EPA - Daily Discharge Monitoring Report - Form 4500

**SUBMISSION ID:** 1124627  
**FACILITY:** Emerald BioEnergy  
**LOCATION:** 2881 Co Rd 156  
 Cardington, OH 43315  
**COUNTY:** Morrow  
**DISTRICT:** CDO

**STATUS:**  
**PERMIT NUMBER:** Revision  
**STATION CODE:** 4IN00204\*BD  
**MONITORING PERIOD :** 589  
 2021-12-01 To: 2021-12-31  
**REPORTING LAB:**  
**ANALYST:**  
**NO DISCHARGE INDICATOR:** AL

PARAMETER	Sludge Volume, to approved beneficial use sites	Sludge Weight, to approved beneficial use sites	Foreign Matter, percent				
PARAMETER CODE	99975	99976	99979				
UNITS	gals	dry tons	%				
FREQUENCY	When Disch.	When Disch.	When Disch.				
SAMPLING TYPE	Total	Total	Composite				
2021-12-01							
2021-12-02							
2021-12-03							
2021-12-04							
2021-12-05							
2021-12-06							
2021-12-07							
2021-12-08							
2021-12-09							
2021-12-10							
2021-12-11							
2021-12-12							
2021-12-13							
2021-12-14							
2021-12-15							
2021-12-16							
2021-12-17							
2021-12-18							
2021-12-19							
2021-12-20							
2021-12-21							
2021-12-22							
2021-12-23							
2021-12-24							
2021-12-25							
2021-12-26							
2021-12-27							
2021-12-28							
2021-12-29							
2021-12-30							
2021-12-31							
Minimum							
Maximum							
Average							
Count							

<b>Name of Responsible Official or Authorized Representative</b>  <div style="text-align: center; font-size: 1.2em;">Jeffrey Williamson</div>	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.	<b>Signature of Responsible Official or Authorized Representative</b>  <div style="height: 60px;"></div>	<b>Submission Date/Time</b>  <div style="text-align: center;"> <b>Certification Version Date</b>            2022-02-27 09:02         </div>
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# Ohio EPA - Daily Discharge Monitoring Report - Form 4500

<b>SUBMISSION ID:</b> <b>FACILITY:</b> <b>LOCATION:</b>  <b>COUNTY:</b> <b>DISTRICT:</b>	1124627 Emerald BioEnergy 2881 Co Rd 156 Cardington, OH 43315  Morrow CDO	<b>STATUS:</b> <b>PERMIT NUMBER:</b> <b>STATION CODE:</b> <b>MONITORING PERIOD :</b>  <b>REPORTING LAB:</b> <b>ANALYST:</b> <b>NO DISCHARGE INDICATOR:</b>	Revision <b>4IN00204*BD</b> 601  <b>2021-12-01 To: 2021-12-31</b>  <b>AL</b>
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PARAMETER	Hydraulic Loading Rate (HLR)	Sludge Solids, Percent Total	Sludge Solids, Percent Volatile	COD, Soluble	Organic Loading Rate (OLR)		
PARAMETER CODE	51028	70318	70322	80116	99981		
UNITS	GPD	%	%	mg/l	lb/cf/day		
FREQUENCY	1/Week	1/Week	1/Week	1/Week	1/Week		
SAMPLING TYPE	Continuous	Composite	Composite	Composite	Continuous		
2021-12-01							
2021-12-02							
2021-12-03							
2021-12-04							
2021-12-05							
2021-12-06							
2021-12-07							
2021-12-08							
2021-12-09							
2021-12-10							
2021-12-11							
2021-12-12							
2021-12-13							
2021-12-14							
2021-12-15							
2021-12-16							
2021-12-17							
2021-12-18							
2021-12-19							
2021-12-20							
2021-12-21							
2021-12-22							
2021-12-23							
2021-12-24							
2021-12-25							
2021-12-26							
2021-12-27							
2021-12-28							
2021-12-29							
2021-12-30							
2021-12-31							
Minimum							
Maximum							
Average							
Count							
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative	Submission Date/Time		
Jeffrey Williamson					Certification Version Date 2022-02-27 09:02		

# Ohio EPA - Daily Discharge Monitoring Report - Form 4500

**SUBMISSION ID:** 1124627  
**FACILITY:** Emerald BioEnergy  
**LOCATION:** 2881 Co Rd 156  
 Cardington, OH 43315  
**COUNTY:** Morrow  
**DISTRICT:** CDO

**STATUS:**  
**PERMIT NUMBER:** 4IN00204\*BD  
**STATION CODE:** 602  
**MONITORING PERIOD :** 2021-12-01 To: 2021-12-31  
**REPORTING LAB:** energy  
**ANALYST:** Jeremy Kanaird  
**NO DISCHARGE INDICATOR:**

PARAMETER	Temperature, In Sludge	pH	Alkalinity, Total (CaCO3)	Volatile Fatty Acids (VFA)	Detention Time, days		
PARAMETER CODE	99978	00400	00410	99980	72026		
UNITS	F	S.U.	mg/l	mg/l	days		
FREQUENCY	1/Day	3/Week	3/Week	3/Week	1/Week		
SAMPLING TYPE	Continuous	Composite	Composite	Composite	Continuous		
2021-12-01	100	7.569	4893	584	31		
2021-12-02	99						
2021-12-03	98	7.542	5049	484			
2021-12-04	98						
2021-12-05	98	7.475					
2021-12-06	98		5011	504			
2021-12-07	98						
2021-12-08	97	7.114	4152	789	31		
2021-12-09	96						
2021-12-10	98	7.205					
2021-12-11	98						
2021-12-12	98	7.469					
2021-12-13	98		5230	1709			
2021-12-14	98		3891	504			
2021-12-15	98	7.183			31		
2021-12-16	98						
2021-12-17	98	7.401	4304	1468			
2021-12-18	98						
2021-12-19	98						
2021-12-20	98	7.366	5297	1993			
2021-12-21	98		5845	1797			
2021-12-22	98	7.414			31		
2021-12-23	98						
2021-12-24	98	7.420	6798	2146			
2021-12-25	98						
2021-12-26	98		5741	2014			
2021-12-27	98	7.518	5646	1903			
2021-12-28	98						
2021-12-29	99	7.551	5655	1344	31		
2021-12-30	98	7.554	5376	1769			
2021-12-31	98						
Minimum		7.114	3891.0	484.0	96.0		
Maximum		7.569	6798.0	2146.0	100.0		
Average			5206.28571	1357.71429	98.03226		
Count		14	14	14	31		
<b>Name of Responsible Official or Authorized Representative</b>	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			<b>Signature of Responsible Official or Authorized Representative</b>		<b>Submission Date/Time</b>	
Jeffrey Williamson						<b>Certification Version Date</b> 2022-02-27 09:02	

# Ohio EPA - Daily Discharge Monitoring Report - Form 4500

<b>SUBMISSION ID:</b> <b>FACILITY:</b> <b>LOCATION:</b>  <b>COUNTY:</b> <b>DISTRICT:</b>	1124627 Emerald BioEnergy 2881 Co Rd 156 Cardington, OH 43315  Morrow CDO	<b>STATUS:</b> <b>PERMIT NUMBER:</b> <b>STATION CODE:</b> <b>MONITORING PERIOD :</b>  <b>REPORTING LAB:</b> <b>ANALYST:</b> <b>NO DISCHARGE INDICATOR:</b>	Revision <b>4IN00204*BD</b> 603  <b>2021-12-01 To: 2021-12-31</b>  <b>AL</b>
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PARAMETER	Solids, Total Volatile	Sludge Solids, Percent Volatile	COD, Soluble	Oil and Grease, Hexane Extr Method	Foreign Matter, percent		
PARAMETER CODE	00157	70322	80116	00552	99979		
UNITS	% Removed	%	mg/l	mg/l	%		
FREQUENCY	1/Week	1/Week	1/Week	1/Month	1/Month		
SAMPLING TYPE	Calculated	Composite	Composite	Composite	Composite		
2021-12-01							
2021-12-02							
2021-12-03							
2021-12-04							
2021-12-05							
2021-12-06							
2021-12-07							
2021-12-08							
2021-12-09							
2021-12-10							
2021-12-11							
2021-12-12							
2021-12-13							
2021-12-14							
2021-12-15							
2021-12-16							
2021-12-17							
2021-12-18							
2021-12-19							
2021-12-20							
2021-12-21							
2021-12-22							
2021-12-23							
2021-12-24							
2021-12-25							
2021-12-26							
2021-12-27							
2021-12-28							
2021-12-29							
2021-12-30							
2021-12-31							
Minimum							
Maximum							
Average							
Count							
<b>Name of Responsible Official or Authorized Representative</b>  <div style="text-align: center; font-size: 1.2em;">Jeffrey Williamson</div>	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			<b>Signature of Responsible Official or Authorized Representative</b>  <div style="height: 80px;"></div>	<b>Submission Date/Time</b>  <div style="text-align: center;">                     Certification Version Date                      2022-02-27 09:02                 </div>		

# Ohio EPA - Daily Discharge Monitoring Report - Form 4500

**SUBMISSION ID:** 1124627  
**FACILITY:** Emerald BioEnergy  
**LOCATION:** 2881 Co Rd 156  
 Cardington, OH 43315  
**COUNTY:** Morrow  
**DISTRICT:** CDO

**STATUS:**  
**PERMIT NUMBER:** Revision  
**STATION CODE:** 4IN00204\*BD  
**MONITORING PERIOD :** 604  
 2021-12-01 To: 2021-12-31  
**REPORTING LAB:** Renergy  
**ANALYST:** Josh Ropke  
**NO DISCHARGE INDICATOR:**

PARAMETER	Freeboard	Maximum Operating Level (MOL), Sludge					
PARAMETER CODE	82564	99977					
UNITS	feet	mgals					
FREQUENCY	1/Week	1/Week					
SAMPLING TYPE	Total	Total					
2021-12-01							
2021-12-02	5.48507	3.52100					
2021-12-03							
2021-12-04							
2021-12-05							
2021-12-06							
2021-12-07							
2021-12-08							
2021-12-09	5.48507	3.52100					
2021-12-10							
2021-12-11							
2021-12-12							
2021-12-13							
2021-12-14							
2021-12-15							
2021-12-16	5.48507	3.52100					
2021-12-17							
2021-12-18							
2021-12-19							
2021-12-20							
2021-12-21							
2021-12-22							
2021-12-23	5.48507	3.52100					
2021-12-24							
2021-12-25							
2021-12-26							
2021-12-27							
2021-12-28							
2021-12-29	5.48507	3.52100					
2021-12-30							
2021-12-31							
Minimum	5.48507						
Maximum	5.48507						
Average	5.48507						
Count	5						
<b>Name of Responsible Official or Authorized Representative</b>  <div style="text-align: center; font-size: 1.2em;">Jeffrey Williamson</div>			<b>Signature of Responsible Official or Authorized Representative</b>  <div style="height: 80px;"></div>			<b>Submission Date/Time</b>	
						<b>Certification Version Date</b>  2022-02-27 09:02	



# Ohio EPA - Daily Discharge Monitoring Report - Form 4500

**SUBMISSION ID:** 1124627  
**FACILITY:** Emerald BioEnergy  
**LOCATION:** 2881 Co Rd 156  
 Cardington, OH 43315  
**COUNTY:** Morrow  
**DISTRICT:** CDO

**STATUS:**  
**PERMIT NUMBER:** Revision  
**STATION CODE:** 4IN00204\*BD  
**MONITORING PERIOD :** 605  
 2021-12-01 To: 2021-12-31  
**REPORTING LAB:** Renergy  
**ANALYST:** Josh Ropke  
**NO DISCHARGE INDICATOR:**

PARAMETER	Freeboard	Maximum Operating Level (MOL), Sludge					
PARAMETER CODE	82564	99977					
UNITS	feet	mgals					
FREQUENCY	1/Week	1/Week					
SAMPLING TYPE	Total	Total					
2021-12-01							
2021-12-02	.38769	.14500					
2021-12-03							
2021-12-04							
2021-12-05							
2021-12-06							
2021-12-07							
2021-12-08							
2021-12-09	.38769	.14500					
2021-12-10							
2021-12-11							
2021-12-12							
2021-12-13							
2021-12-14							
2021-12-15							
2021-12-16	.38769	.14500					
2021-12-17							
2021-12-18							
2021-12-19							
2021-12-20							
2021-12-21							
2021-12-22							
2021-12-23	.38769	.14500					
2021-12-24							
2021-12-25							
2021-12-26							
2021-12-27							
2021-12-28							
2021-12-29							
2021-12-30	.38769	.14500					
2021-12-31							
Minimum	0.38769						
Maximum	0.38769						
Average	0.38769						
Count	5						
<b>Name of Responsible Official or Authorized Representative</b>  <div style="text-align: center; font-size: 1.2em;">Jeffrey Williamson</div>			<b>Signature of Responsible Official or Authorized Representative</b>  <div style="height: 80px;"></div>			<b>Submission Date/Time</b>	
						<b>Certification Version Date</b>  2022-02-27 09:02	

# Ohio EPA - Daily Discharge Monitoring Report - Form 4500

**SUBMISSION ID:** 1124627  
**FACILITY:** Emerald BioEnergy  
**LOCATION:** 2881 Co Rd 156  
 Cardington, OH 43315  
**COUNTY:** Morrow  
**DISTRICT:** CDO

**STATUS:**  
**PERMIT NUMBER:** Revision  
**STATION CODE:** 4IN00204\*BD  
**MONITORING PERIOD :** 606  
 2021-12-01 To: 2021-12-31  
**REPORTING LAB:** Renergy  
**ANALYST:** Josh Ropke  
**NO DISCHARGE INDICATOR:**

PARAMETER	Freeboard	Maximum Operating Level (MOL), Sludge					
PARAMETER CODE	82564	99977					
UNITS	feet	mgals					
FREQUENCY	1/Week	1/Week					
SAMPLING TYPE	Total	Total					
2021-12-01							
2021-12-02	.33176	.28500					
2021-12-03							
2021-12-04							
2021-12-05							
2021-12-06							
2021-12-07							
2021-12-08							
2021-12-09	.33176	.28500					
2021-12-10							
2021-12-11							
2021-12-12							
2021-12-13							
2021-12-14							
2021-12-15							
2021-12-16	.33176	.28500					
2021-12-17							
2021-12-18							
2021-12-19							
2021-12-20							
2021-12-21							
2021-12-22							
2021-12-23	.33176	.28500					
2021-12-24							
2021-12-25							
2021-12-26							
2021-12-27							
2021-12-28							
2021-12-29							
2021-12-30	.33176	.28500					
2021-12-31							
Minimum	0.33176						
Maximum	0.33176						
Average	0.33176						
Count	5						
<b>Name of Responsible Official or Authorized Representative</b>	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.		<b>Signature of Responsible Official or Authorized Representative</b>		<b>Submission Date/Time</b>		
Jeffrey Williamson					<b>Certification Version Date</b> 2022-02-27 09:02		

# Ohio EPA - Daily Discharge Monitoring Report - Form 4500

**SUBMISSION ID:** 1124627  
**FACILITY:** Emerald BioEnergy  
**LOCATION:** 2881 Co Rd 156  
 Cardington, OH 43315  
**COUNTY:** Morrow  
**DISTRICT:** CDO

**STATUS:**  
**PERMIT NUMBER:** Revision  
**STATION CODE:** 4IN00204\*BD  
**MONITORING PERIOD :** 607  
 2021-12-01 To: 2021-12-31  
**REPORTING LAB:** Renergy  
**ANALYST:** Josh Ropke  
**NO DISCHARGE INDICATOR:**

PARAMETER	Freeboard	Maximum Operating Level (MOL), Sludge					
PARAMETER CODE	82564	99977					
UNITS	feet	mgals					
FREQUENCY	1/Week	1/Week					
SAMPLING TYPE	Total	Total					
2021-12-01							
2021-12-02	2.85714	2.81000					
2021-12-03							
2021-12-04							
2021-12-05							
2021-12-06							
2021-12-07							
2021-12-08							
2021-12-09	2.85714	2.81000					
2021-12-10							
2021-12-11							
2021-12-12							
2021-12-13							
2021-12-14							
2021-12-15							
2021-12-16	2.85714	2.81000					
2021-12-17							
2021-12-18							
2021-12-19							
2021-12-20							
2021-12-21							
2021-12-22							
2021-12-23	2.85714	2.81000					
2021-12-24							
2021-12-25							
2021-12-26							
2021-12-27							
2021-12-28							
2021-12-29							
2021-12-30	2.85714	2.81000					
2021-12-31							
Minimum	2.85714						
Maximum	2.85714						
Average	2.85714						
Count	5						
<b>Name of Responsible Official or Authorized Representative</b>	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.		<b>Signature of Responsible Official or Authorized Representative</b>		<b>Submission Date/Time</b>		
Jeffrey Williamson					<b>Certification Version Date</b> 2022-02-27 09:02		

# Ohio EPA - Daily Discharge Monitoring Report - Form 4500

**SUBMISSION ID:** 1124627  
**FACILITY:** Emerald BioEnergy  
**LOCATION:** 2881 Co Rd 156  
 Cardington, OH 43315  
**COUNTY:** Morrow  
**DISTRICT:** CDO

**STATUS:**  
**PERMIT NUMBER:** Revision  
**STATION CODE:** 4IN00204\*BD  
**MONITORING PERIOD :** 608  
 2021-12-01 To: 2021-12-31  
**REPORTING LAB:** Renergy  
**ANALYST:** Josh Ropke  
**NO DISCHARGE INDICATOR:**

PARAMETER	Freeboard	Maximum Operating Level (MOL), Sludge					
PARAMETER CODE	82564	99977					
UNITS	feet	mgals					
FREQUENCY	1/Week	1/Week					
SAMPLING TYPE	Total	Total					
2021-12-01							
2021-12-02	1.36200	1.36500					
2021-12-03							
2021-12-04							
2021-12-05							
2021-12-06							
2021-12-07							
2021-12-08							
2021-12-09	1.36200	1.36500					
2021-12-10							
2021-12-11							
2021-12-12							
2021-12-13							
2021-12-14							
2021-12-15							
2021-12-16	1.36200	1.36500					
2021-12-17							
2021-12-18							
2021-12-19							
2021-12-20							
2021-12-21							
2021-12-22							
2021-12-23	1.36200	1.36500					
2021-12-24							
2021-12-25							
2021-12-26							
2021-12-27							
2021-12-28							
2021-12-29							
2021-12-30	1.36200	1.36500					
2021-12-31							
Minimum	1.362						
Maximum	1.362						
Average	1.362						
Count	5						
<b>Name of Responsible Official or Authorized Representative</b>	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.		<b>Signature of Responsible Official or Authorized Representative</b>		<b>Submission Date/Time</b>		
Jeffrey Williamson					<b>Certification Version Date</b> 2022-02-27 09:02		

# Ohio EPA - Daily Discharge Monitoring Report - Form 4500

**SUBMISSION ID:** 1124627  
**FACILITY:** Emerald BioEnergy  
**LOCATION:** 2881 Co Rd 156  
 Cardington, OH 43315  
**COUNTY:** Morrow  
**DISTRICT:** CDO

**STATUS:**  
**PERMIT NUMBER:** Revision  
**STATION CODE:** 4IN00204\*BD  
**MONITORING PERIOD :** 609  
 2021-12-01 To: 2021-12-31  
**REPORTING LAB:** Renergy  
**ANALYST:** Josh Ropke  
**NO DISCHARGE INDICATOR:**

PARAMETER	Freeboard	Maximum Operating Level (MOL), Sludge					
PARAMETER CODE	82564	99977					
UNITS	feet	mgals					
FREQUENCY	1/Week	1/Week					
SAMPLING TYPE	Total	Total					
2021-12-01							
2021-12-02	20.76969	24.02000					
2021-12-03							
2021-12-04							
2021-12-05							
2021-12-06							
2021-12-07							
2021-12-08							
2021-12-09	20.76969	24.02000					
2021-12-10							
2021-12-11							
2021-12-12							
2021-12-13							
2021-12-14							
2021-12-15							
2021-12-16	20.76969	24.02000					
2021-12-17							
2021-12-18							
2021-12-19							
2021-12-20							
2021-12-21							
2021-12-22							
2021-12-23	20.76969	24.02000					
2021-12-24							
2021-12-25							
2021-12-26							
2021-12-27							
2021-12-28							
2021-12-29							
2021-12-30	20.76969	24.02000					
2021-12-31							
Minimum	20.76969						
Maximum	20.76969						
Average	20.76969						
Count	5						
<b>Name of Responsible Official or Authorized Representative</b>	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.		<b>Signature of Responsible Official or Authorized Representative</b>		<b>Submission Date/Time</b>		
Jeffrey Williamson					<b>Certification Version Date</b> 2022-02-27 09:02		

# Ohio EPA - Daily Discharge Monitoring Report - Form 4500

**SUBMISSION ID:** 1124627  
**FACILITY:** Emerald BioEnergy  
**LOCATION:** 2881 Co Rd 156  
 Cardington, OH 43315  
  
**COUNTY:** Morrow  
**DISTRICT:** CDO

**STATUS:**  
**PERMIT NUMBER:** Revision  
**STATION CODE:** 4IN00204\*BD  
**MONITORING PERIOD :** 701  
 2021-12-01 To: 2021-12-31  
  
**REPORTING LAB:** Brookside  
**ANALYST:** Cheryl Rex  
**NO DISCHARGE INDICATOR:**

PARAMETER	Water Temperature	Turbidity	Conductivity	pH	Nitrogen, Ammonia (NH3)	Nitrogen, Nitrite (NO2)	Nitrogen, Nitrate (NO3)
PARAMETER CODE	00011	00070	00094	00400	00610	00615	00620
UNITS	F	J.U.	Umho/Cm	S.U.	mg/l	mg/l	mg/l
FREQUENCY	2/Year	2/Year	2/Year	2/Year	2/Year	2/Year	2/Year
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Grab	Grab
2021-12-01	52	166.4	1330	7.84	.165	11.795	AA5.0
2021-12-02							
2021-12-03							
2021-12-04							
2021-12-05							
2021-12-06							
2021-12-07							
2021-12-08							
2021-12-09							
2021-12-10							
2021-12-11							
2021-12-12							
2021-12-13							
2021-12-14							
2021-12-15							
2021-12-16							
2021-12-17							
2021-12-18							
2021-12-19							
2021-12-20							
2021-12-21							
2021-12-22							
2021-12-23							
2021-12-24							
2021-12-25							
2021-12-26							
2021-12-27							
2021-12-28							
2021-12-29							
2021-12-30							
2021-12-31							
Minimum	52.0	166.4	1330.0	7.84	0.165	11.795	0.0
Maximum	52.0	166.4	1330.0	7.84	0.165	11.795	0.0
Average	52	166.4	1330		0.165	11.795	0
Count	1	1	1	1	1	1	1
<b>Name of Responsible Official or Authorized Representative</b>  <div style="text-align: center; font-size: 1.2em;">Jeffrey Williamson</div>		I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			<b>Signature of Responsible Official or Authorized Representative</b>		<b>Submission Date/Time</b>
							<b>Certification Version Date</b> 2022-02-27 09:02

# Ohio EPA - Daily Discharge Monitoring Report - Form 4500

**SUBMISSION ID:** 1124627  
**FACILITY:** Emerald BioEnergy  
**LOCATION:** 2881 Co Rd 156  
 Cardington, OH 43315  
**COUNTY:** Morrow  
**DISTRICT:** CDO

**STATUS:**  
**PERMIT NUMBER:** Revision  
**STATION CODE:** 4IN00204\*BD  
**MONITORING PERIOD :** 701  
 2021-12-01 To: 2021-12-31  
**REPORTING LAB:** Brookside  
**ANALYST:** Cheryl Rex  
**NO DISCHARGE INDICATOR:**

PARAMETER	Nitrogen Kjeldahl, Total	Phosphorus, Total (P)	Sodium, Total (Na)	Potassium, Total (K)	Chloride, Total	Sulfate, (SO4)	E. coli
PARAMETER CODE	00625	00665	00929	00937	00940	00945	31648
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	#/100 ml
FREQUENCY	2/Year	2/Year	2/Year	2/Year	2/Year	2/Year	2/Year
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Grab	Grab
2021-12-01	.86	AA5.0	24.68	2.197	122.6	38.894	3.1
2021-12-02							
2021-12-03							
2021-12-04							
2021-12-05							
2021-12-06							
2021-12-07							
2021-12-08							
2021-12-09							
2021-12-10							
2021-12-11							
2021-12-12							
2021-12-13							
2021-12-14							
2021-12-15							
2021-12-16							
2021-12-17							
2021-12-18							
2021-12-19							
2021-12-20							
2021-12-21							
2021-12-22							
2021-12-23							
2021-12-24							
2021-12-25							
2021-12-26							
2021-12-27							
2021-12-28							
2021-12-29							
2021-12-30							
2021-12-31							
Minimum	0.86	0.0	24.68	2.197	122.6	38.894	3.1
Maximum	0.86	0.0	24.68	2.197	122.6	38.894	3.1
Average	0.86	0	24.68	2.197	122.6	38.894	3.1
Count	1	1	1	1	1	1	1
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time	
Jeffrey Williamson						Certification Version Date 2022-02- 27 09:02	

# Ohio EPA - Daily Discharge Monitoring Report - Form 4500

**SUBMISSION ID:** 1124627  
**FACILITY:** Emerald BioEnergy  
**LOCATION:** 2881 Co Rd 156  
 Cardington, OH 43315  
**COUNTY:** Morrow  
**DISTRICT:** CDO

**STATUS:**  
**PERMIT NUMBER:** Revision  
**STATION CODE:** 4IN00204\*BD  
**MONITORING PERIOD :** 701  
 2021-12-01 To: 2021-12-31  
**REPORTING LAB:** Brookside  
**ANALYST:** Cheryl Rex  
**NO DISCHARGE INDICATOR:**

<b>PARAMETER</b>	Residue, Total Filterable					
<b>PARAMETER CODE</b>	70300					
<b>UNITS</b>	mg/l					
<b>FREQUENCY</b>	2/Year					
<b>SAMPLING TYPE</b>	Grab					
2021-12-01	640					
2021-12-02						
2021-12-03						
2021-12-04						
2021-12-05						
2021-12-06						
2021-12-07						
2021-12-08						
2021-12-09						
2021-12-10						
2021-12-11						
2021-12-12						
2021-12-13						
2021-12-14						
2021-12-15						
2021-12-16						
2021-12-17						
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2021-12-19						
2021-12-20						
2021-12-21						
2021-12-22						
2021-12-23						
2021-12-24						
2021-12-25						
2021-12-26						
2021-12-27						
2021-12-28						
2021-12-29						
2021-12-30						
2021-12-31						
Minimum	640.0					
Maximum	640.0					
Average	640					
Count	1					
<b>Name of Responsible Official or Authorized Representative</b>	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			<b>Signature of Responsible Official or Authorized Representative</b>		<b>Submission Date/Time</b>
Jeffrey Williamson						<b>Certification Version Date</b> 2022-02-27 09:02



# Ohio EPA - Daily Discharge Monitoring Report - Form 4500

**SUBMISSION ID:** 1124627  
**FACILITY:** Emerald BioEnergy  
**LOCATION:** 2881 Co Rd 156  
 Cardington, OH 43315  
**COUNTY:** Morrow  
**DISTRICT:** CDO

**STATUS:**  
**PERMIT NUMBER:** Revision  
**STATION CODE:** 4IN00204\*BD  
**MONITORING PERIOD :** 702  
 2021-12-01 To: 2021-12-31  
**REPORTING LAB:** Brookside  
**ANALYST:** Erica Huber  
**NO DISCHARGE INDICATOR:**

PARAMETER	Water Temperature	Turbidity	Conductivity	pH	Nitrogen, Ammonia (NH3)	Nitrogen, Nitrite (NO2)	Nitrogen, Nitrate (NO3)
PARAMETER CODE	00011	00070	00094	00400	00610	00615	00620
UNITS	F	J.U.	Umho/Cm	S.U.	mg/l	mg/l	mg/l
FREQUENCY	2/Year	2/Year	2/Year	2/Year	2/Year	2/Year	2/Year
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Grab	Grab
2021-12-01	55	152.5	1322	7.68	.162	9.204	AA5.0
2021-12-02							
2021-12-03							
2021-12-04							
2021-12-05							
2021-12-06							
2021-12-07							
2021-12-08							
2021-12-09							
2021-12-10							
2021-12-11							
2021-12-12							
2021-12-13							
2021-12-14							
2021-12-15							
2021-12-16							
2021-12-17							
2021-12-18							
2021-12-19							
2021-12-20							
2021-12-21							
2021-12-22							
2021-12-23							
2021-12-24							
2021-12-25							
2021-12-26							
2021-12-27							
2021-12-28							
2021-12-29							
2021-12-30							
2021-12-31							
Minimum	55.0	152.5	1322.0	7.68	0.162	9.204	0.0
Maximum	55.0	152.5	1322.0	7.68	0.162	9.204	0.0
Average	55	152.5	1322		0.162	9.204	0
Count	1	1	1	1	1	1	1
<b>Name of Responsible Official or Authorized Representative</b>  <div style="text-align: center; font-size: 1.2em;">Jeffrey Williamson</div>		I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			<b>Signature of Responsible Official or Authorized Representative</b>  <div style="border: 1px solid black; height: 80px; width: 100%;"></div>		<b>Submission Date/Time</b>  <div style="text-align: center;"> <b>Certification Version Date</b>            2022-02-27 09:02         </div>

# Ohio EPA - Daily Discharge Monitoring Report - Form 4500

**SUBMISSION ID:** 1124627  
**FACILITY:** Emerald BioEnergy  
**LOCATION:** 2881 Co Rd 156  
 Cardington, OH 43315  
**COUNTY:** Morrow  
**DISTRICT:** CDO

**STATUS:**  
**PERMIT NUMBER:** Revision  
**STATION CODE:** 4IN00204\*BD  
**MONITORING PERIOD :** 702  
 2021-12-01 To: 2021-12-31  
**REPORTING LAB:** Brookside  
**ANALYST:** Erica Huber  
**NO DISCHARGE INDICATOR:**

PARAMETER	Nitrogen Kjeldahl, Total	Phosphorus, Total (P)	Sodium, Total (Na)	Potassium, Total (K)	Chloride, Total	Sulfate, (SO4)	E. coli
PARAMETER CODE	00625	00665	00929	00937	00940	00945	31648
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	#/100 ml
FREQUENCY	2/Year	2/Year	2/Year	2/Year	2/Year	2/Year	2/Year
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Grab	Grab
2021-12-01	4.72	.207	25.47	2.019	96.647	30.345	25.47
2021-12-02							
2021-12-03							
2021-12-04							
2021-12-05							
2021-12-06							
2021-12-07							
2021-12-08							
2021-12-09							
2021-12-10							
2021-12-11							
2021-12-12							
2021-12-13							
2021-12-14							
2021-12-15							
2021-12-16							
2021-12-17							
2021-12-18							
2021-12-19							
2021-12-20							
2021-12-21							
2021-12-22							
2021-12-23							
2021-12-24							
2021-12-25							
2021-12-26							
2021-12-27							
2021-12-28							
2021-12-29							
2021-12-30							
2021-12-31							
Minimum	4.72	0.207	25.47	2.019	96.647	30.345	25.47
Maximum	4.72	0.207	25.47	2.019	96.647	30.345	25.47
Average	4.72	0.207	25.47	2.019	96.647	30.345	25.47
Count	1	1	1	1	1	1	1
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time	
Jeffrey Williamson						Certification Version Date  2022-02- 27 09:02	

# Ohio EPA - Daily Discharge Monitoring Report - Form 4500

**SUBMISSION ID:** 1124627  
**FACILITY:** Emerald BioEnergy  
**LOCATION:** 2881 Co Rd 156  
 Cardington, OH 43315  
**COUNTY:** Morrow  
**DISTRICT:** CDO

**STATUS:** Revision  
**PERMIT NUMBER:** 4IN00204\*BD  
**STATION CODE:** 702  
**MONITORING PERIOD :** 2021-12-01 To: 2021-12-31  
**REPORTING LAB:** Brookside  
**ANALYST:** Erica Huber  
**NO DISCHARGE INDICATOR:**

<b>PARAMETER</b>	Residue, Total Filterable					
<b>PARAMETER CODE</b>	70300					
<b>UNITS</b>	mg/l					
<b>FREQUENCY</b>	2/Year					
<b>SAMPLING TYPE</b>	Grab					
2021-12-01	680					
2021-12-02						
2021-12-03						
2021-12-04						
2021-12-05						
2021-12-06						
2021-12-07						
2021-12-08						
2021-12-09						
2021-12-10						
2021-12-11						
2021-12-12						
2021-12-13						
2021-12-14						
2021-12-15						
2021-12-16						
2021-12-17						
2021-12-18						
2021-12-19						
2021-12-20						
2021-12-21						
2021-12-22						
2021-12-23						
2021-12-24						
2021-12-25						
2021-12-26						
2021-12-27						
2021-12-28						
2021-12-29						
2021-12-30						
2021-12-31						
<b>Minimum</b>	680.0					
<b>Maximum</b>	680.0					
<b>Average</b>	680					
<b>Count</b>	1					
<b>Name of Responsible Official or Authorized Representative</b>	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			<b>Signature of Responsible Official or Authorized Representative</b>		<b>Submission Date/Time</b>
Jeffrey Williamson						<b>Certification Version Date</b> 2022-02-27 09:02

# Ohio EPA - Daily Discharge Monitoring Report - Form 4500

**SUBMISSION ID:** 1124627  
**FACILITY:** Emerald BioEnergy  
**LOCATION:** 2881 Co Rd 156  
 Cardington, OH 43315  
**COUNTY:** Morrow  
**DISTRICT:** CDO

**STATUS:**  
**PERMIT NUMBER:**  
**STATION CODE:**  
**MONITORING PERIOD :**  
**REPORTING LAB:**  
**ANALYST:**  
**NO DISCHARGE INDICATOR:**

Revision  
**4IN00204\*BD**  
 703  
**2021-12-01 To: 2021-12-31**  
 Brookside  
 Erica Huber

PARAMETER	Water Temperature	Turbidity	Conductivity	pH	Nitrogen, Ammonia (NH3)	Nitrogen, Nitrite (NO2)	Nitrogen, Nitrate (NO3)
PARAMETER CODE	00011	00070	00094	00400	00610	00615	00620
UNITS	F	J.U.	Umho/Cm	S.U.	mg/l	mg/l	mg/l
FREQUENCY	2/Year	2/Year	2/Year	2/Year	2/Year	2/Year	2/Year
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Grab	Grab
2021-12-01	57	178.2	1339	7.88	.189	11.727	AA5.0
2021-12-02							
2021-12-03							
2021-12-04							
2021-12-05							
2021-12-06							
2021-12-07							
2021-12-08							
2021-12-09							
2021-12-10							
2021-12-11							
2021-12-12							
2021-12-13							
2021-12-14							
2021-12-15							
2021-12-16							
2021-12-17							
2021-12-18							
2021-12-19							
2021-12-20							
2021-12-21							
2021-12-22							
2021-12-23							
2021-12-24							
2021-12-25							
2021-12-26							
2021-12-27							
2021-12-28							
2021-12-29							
2021-12-30							
2021-12-31							
Minimum	57.0	178.2	1339.0	7.88	0.189	11.727	0.0
Maximum	57.0	178.2	1339.0	7.88	0.189	11.727	0.0
Average	57	178.2	1339		0.189	11.727	0
Count	1	1	1	1	1	1	1
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.				Signature of Responsible Official or Authorized Representative		Submission Date/Time
Jeffrey Williamson							Certification Version Date 2022-02-27 09:02

# Ohio EPA - Daily Discharge Monitoring Report - Form 4500

**SUBMISSION ID:** 1124627  
**FACILITY:** Emerald BioEnergy  
**LOCATION:** 2881 Co Rd 156  
 Cardington, OH 43315  
**COUNTY:** Morrow  
**DISTRICT:** CDO

**STATUS:**  
**PERMIT NUMBER:** Revision  
**STATION CODE:** 4IN00204\*BD  
**MONITORING PERIOD :** 703  
 2021-12-01 To: 2021-12-31  
**REPORTING LAB:** Brookside  
**ANALYST:** Erica Huber  
**NO DISCHARGE INDICATOR:**

PARAMETER	Nitrogen Kjeldahl, Total	Phosphorus, Total (P)	Sodium, Total (Na)	Potassium, Total (K)	Chloride, Total	Sulfate, (SO4)	E. coli
PARAMETER CODE	00625	00665	00929	00937	00940	00945	31648
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	#/100 ml
FREQUENCY	2/Year	2/Year	2/Year	2/Year	2/Year	2/Year	2/Year
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Grab	Grab
2021-12-01	1.1	AA5.0	24.61	1.956	120.926	38.477	1
2021-12-02							
2021-12-03							
2021-12-04							
2021-12-05							
2021-12-06							
2021-12-07							
2021-12-08							
2021-12-09							
2021-12-10							
2021-12-11							
2021-12-12							
2021-12-13							
2021-12-14							
2021-12-15							
2021-12-16							
2021-12-17							
2021-12-18							
2021-12-19							
2021-12-20							
2021-12-21							
2021-12-22							
2021-12-23							
2021-12-24							
2021-12-25							
2021-12-26							
2021-12-27							
2021-12-28							
2021-12-29							
2021-12-30							
2021-12-31							
Minimum	1.1	0.0	24.61	1.956	120.926	38.477	1.0
Maximum	1.1	0.0	24.61	1.956	120.926	38.477	1.0
Average	1.1	0	24.61	1.956	120.926	38.477	1
Count	1	1	1	1	1	1	1
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time	
Jeffrey Williamson						Certification Version Date 2022-02- 27 09:02	

# Ohio EPA - Daily Discharge Monitoring Report - Form 4500

**SUBMISSION ID:** 1124627  
**FACILITY:** Emerald BioEnergy  
**LOCATION:** 2881 Co Rd 156  
 Cardington, OH 43315  
**COUNTY:** Morrow  
**DISTRICT:** CDO

**STATUS:** Revision  
**PERMIT NUMBER:** 4IN00204\*BD  
**STATION CODE:** 703  
**MONITORING PERIOD :** 2021-12-01 To: 2021-12-31  
**REPORTING LAB:** Brookside  
**ANALYST:** Erica Huber  
**NO DISCHARGE INDICATOR:**

PARAMETER	Residue, Total Filterable					
PARAMETER CODE	70300					
UNITS	mg/l					
FREQUENCY	2/Year					
SAMPLING TYPE	Grab					
2021-12-01	668					
2021-12-02						
2021-12-03						
2021-12-04						
2021-12-05						
2021-12-06						
2021-12-07						
2021-12-08						
2021-12-09						
2021-12-10						
2021-12-11						
2021-12-12						
2021-12-13						
2021-12-14						
2021-12-15						
2021-12-16						
2021-12-17						
2021-12-18						
2021-12-19						
2021-12-20						
2021-12-21						
2021-12-22						
2021-12-23						
2021-12-24						
2021-12-25						
2021-12-26						
2021-12-27						
2021-12-28						
2021-12-29						
2021-12-30						
2021-12-31						
Minimum	668.0					
Maximum	668.0					
Average	668					
Count	1					
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Jeffrey Williamson						Certification Version Date 2022-02-27 09:02

# Ohio EPA - Daily Discharge Monitoring Report - Form 4500

**SUBMISSION ID:** 1124627  
**FACILITY:** Emerald BioEnergy  
**LOCATION:** 2881 Co Rd 156  
 Cardington, OH 43315  
**COUNTY:** Morrow  
**DISTRICT:** CDO

**STATUS:**  
**PERMIT NUMBER:** Revision  
**STATION CODE:** 4IN00204\*BD  
**MONITORING PERIOD :** 704  
 2021-12-01 To: 2021-12-31  
**REPORTING LAB:** Brookeside  
**ANALYST:** Erica Huber  
**NO DISCHARGE INDICATOR:**

PARAMETER	Water Temperature	Turbidity	Conductivity	pH	Nitrogen, Ammonia (NH3)	Nitrogen, Nitrite (NO2)	Nitrogen, Nitrate (NO3)
PARAMETER CODE	00011	00070	00094	00400	00610	00615	00620
UNITS	F	J.U.	Umho/Cm	S.U.	mg/l	mg/l	mg/l
FREQUENCY	2/Year	2/Year	2/Year	2/Year	2/Year	2/Year	2/Year
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Grab	Grab
2021-12-01	55	1328	160	7.83	.189	11.532	AA5.0
2021-12-02							
2021-12-03							
2021-12-04							
2021-12-05							
2021-12-06							
2021-12-07							
2021-12-08							
2021-12-09							
2021-12-10							
2021-12-11							
2021-12-12							
2021-12-13							
2021-12-14							
2021-12-15							
2021-12-16							
2021-12-17							
2021-12-18							
2021-12-19							
2021-12-20							
2021-12-21							
2021-12-22							
2021-12-23							
2021-12-24							
2021-12-25							
2021-12-26							
2021-12-27							
2021-12-28							
2021-12-29							
2021-12-30							
2021-12-31							
Minimum	55.0	1328.0	160.0	7.83	0.189	11.532	0.0
Maximum	55.0	1328.0	160.0	7.83	0.189	11.532	0.0
Average	55	1328	160		0.189	11.532	0
Count	1	1	1	1	1	1	1
<b>Name of Responsible Official or Authorized Representative</b>  <div style="text-align: center; font-size: 1.2em;">Jeffrey Williamson</div>		I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			<b>Signature of Responsible Official or Authorized Representative</b>		<b>Submission Date/Time</b>
							<b>Certification Version Date</b> 2022-02-27 09:02

# Ohio EPA - Daily Discharge Monitoring Report - Form 4500

**SUBMISSION ID:** 1124627  
**FACILITY:** Emerald BioEnergy  
**LOCATION:** 2881 Co Rd 156  
 Cardington, OH 43315  
**COUNTY:** Morrow  
**DISTRICT:** CDO

**STATUS:**  
**PERMIT NUMBER:** Revision  
**STATION CODE:** 4IN00204\*BD  
**MONITORING PERIOD :** 704  
 2021-12-01 To: 2021-12-31  
**REPORTING LAB:** Brookside  
**ANALYST:** Erica Huber  
**NO DISCHARGE INDICATOR:**

PARAMETER	Nitrogen Kjeldahl, Total	Phosphorus, Total (P)	Sodium, Total (Na)	Potassium, Total (K)	Chloride, Total	Sulfate, (SO4)	E. coli
PARAMETER CODE	00625	00665	00929	00937	00940	00945	31648
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	#/100 ml
FREQUENCY	2/Year	2/Year	2/Year	2/Year	2/Year	2/Year	2/Year
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Grab	Grab
2021-12-01	1.98	AA5.0	24.21	1.981	119.079	37.34	3.1
2021-12-02							
2021-12-03							
2021-12-04							
2021-12-05							
2021-12-06							
2021-12-07							
2021-12-08							
2021-12-09							
2021-12-10							
2021-12-11							
2021-12-12							
2021-12-13							
2021-12-14							
2021-12-15							
2021-12-16							
2021-12-17							
2021-12-18							
2021-12-19							
2021-12-20							
2021-12-21							
2021-12-22							
2021-12-23							
2021-12-24							
2021-12-25							
2021-12-26							
2021-12-27							
2021-12-28							
2021-12-29							
2021-12-30							
2021-12-31							
Minimum	1.98	0.0	24.21	1.981	119.079	37.34	3.1
Maximum	1.98	0.0	24.21	1.981	119.079	37.34	3.1
Average	1.98	0	24.21	1.981	119.079	37.34	3.1
Count	1	1	1	1	1	1	1
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time	
Jeffrey Williamson						Certification Version Date 2022-02-27 09:02	



# Ohio EPA - Daily Discharge Monitoring Report - Form 4500

**SUBMISSION ID:** 1124627  
**FACILITY:** Emerald BioEnergy  
**LOCATION:** 2881 Co Rd 156  
 Cardington, OH 43315  
**COUNTY:** Morrow  
**DISTRICT:** CDO

**STATUS:**  
**PERMIT NUMBER:** Revision  
**STATION CODE:** 4IN00204\*BD  
**MONITORING PERIOD :** 704  
 2021-12-01 To: 2021-12-31  
**REPORTING LAB:** Brookside  
**ANALYST:** Erica Huber  
**NO DISCHARGE INDICATOR:**

<b>PARAMETER</b>	Residue, Total Filterable					
<b>PARAMETER CODE</b>	70300					
<b>UNITS</b>	mg/l					
<b>FREQUENCY</b>	2/Year					
<b>SAMPLING TYPE</b>	Grab					
2021-12-01	704					
2021-12-02						
2021-12-03						
2021-12-04						
2021-12-05						
2021-12-06						
2021-12-07						
2021-12-08						
2021-12-09						
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2021-12-21						
2021-12-22						
2021-12-23						
2021-12-24						
2021-12-25						
2021-12-26						
2021-12-27						
2021-12-28						
2021-12-29						
2021-12-30						
2021-12-31						
Minimum	704.0					
Maximum	704.0					
Average	704					
Count	1					
<b>Name of Responsible Official or Authorized Representative</b>	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			<b>Signature of Responsible Official or Authorized Representative</b>		<b>Submission Date/Time</b>
Jeffrey Williamson						<b>Certification Version Date</b> 2022-02-27 09:02

# Ohio EPA - Daily Discharge Monitoring Report - Form 4500

**FACILITY:**  
**LOCATION:**

Emerald BioEnergy  
2881 Co Rd 156  
Cardington, OH 43315

**PERMIT NUMBER:**  
**MONITORING PERIOD :**

**4IN00204\*BD**  
**2021-12-01 To: 2021-12-31**

## GENERAL REPORT COMMENT:

I am currently waiting on the test results to come back from the lab for test 701,702,703 and 704. once the results are received I will update the info.

## PARAMETER COMMENTS:

Station Code	Parameter Name	Parameter Code	Date	Unit	Comment
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